

Abstract of the Disclosure

Provided is a wastewater treatment apparatus for removing nitrogen and phosphorus having an anaerobic tank, an anoxic tank, an aerobic tank and a clarifier, wherein the aerobic tank includes has a baffle installed at one side thereof to form a dissolved oxygen reducing zone for reducing the concentration of dissolved oxygen contained in internally recycled wastewater returned from a dissolved oxygen reducing zone while increasing the concentration of dissolved oxygen contained in treated effluent supplied from a part other than the dissolved oxygen reducing zone of the aerobic tank to a clarifier in a subsequent stage. Since organic matter present in wastewater is effectively used, the efficiency of removing nitrogen and phosphorus can be increased and the amounts of oxygen required throughout the treatment process and organic matter required for denitrification can be reduced. Also, synthesis of cells of microorganisms is suppressed. Therefore, the repair and maintenance costs can be reduced.